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SEQUENCE LISTING

NOV 05 2002

TECH CENTER 1600/2900

<110> Daniel H. Cohn
Muhammad Faiyaz ul Haque
Lily M. King
Deborah Krakow

<120> 3-Phosphoadenosine-5-Phosphosulfate
(PAPS) Synthetase Proteins and Methods for Treating
Osteoarthritic Disorders

<130> 18810-81552

<140> US 09/898,165

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<150> 09/399,212

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35 40 45
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Val Arg His Gly Leu Asn Arg Asn Leu Gly Phe Ser Pro Gly Asp Arg
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Ala Gly Leu Val Cys Ile Thr Ser Phe Ile Ser Pro Phe Ala Lys Asp
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Gly Ile Asp Ser Asp Tyr Glu Lys Pro Glu Thr Pro Glu Arg Val Leu
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Val Lys Gly Leu Tyr Lys Arg Ala Arg Ala Gly Glu Ile Lys Gly Phe
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<210> 21
 <211> 22
 <212> DNA
 <213> Mus musculus

<400> 21
 gcaattggat acagagcagc ta 22

<210> 22
 <211> 22
 <212> DNA
 <213> Mus musculus

<400> 22
 gacaatgtcc gtcattggcct ta 22

<210> 23
 <211> 21
 <212> DNA
 <213> Mus musculus

<400> 23
 attcccattg tattgcccgt t 21

<210> 24
 <211> 21
 <212> DNA
 <213> Mus musculus

<400> 24
 aacgggcaat acaatgggaa t 21

<210> 25
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 <212> DNA
 <213> Mus musculus

<400> 25
 gataaagctg gtgatgcaaa cc 22

<210> 26
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 <213> Mus musculus

<400> 26
 catgggatgg cgtgagatac 20

<210> 27
 <211> 23
 <212> DNA
 <213> Mus musculus

<400> 27
 cataagcttt gctttggaag agt 23

<210> 28
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 28
 gcatgtccag acagacacca c 21

<210> 29
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <223> D19Mit13 locus and flanking sequences

<221> misc_feature
 <222> (1)...(333)
 <223> n = A,T,C or G; at nucleotide positions 23 and 305

<400> 29
 ctgactatga gaaacctgaa acnccagagt gtgtgctgaa gaccaacctg tcttcagtaa 60
 gcgactgtgt gcaacagggt gtggaacttt tgcaggagca ggtaggaggg tggttcttgc 120
 cagtgtgttc agtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgcgtgtgca tgtgtgtgtg 180
 catgtgtgtg tgcgtgtgca tgtgtgtgtg ttgaaagata atctgagttt ctttattccc 240
 tggccaatct cagtaactat tgccaatttc gtttcccaca gaacattgta cccacacca 300
 ccatnaaagg catccacgaa ctctttgtgc cag 333

<210> 30
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<223> Nucleotide positions +1414 through +1431 of PAPSS2
coding sequence

<400> 30
gatcccaagt caaccatt

18

<210> 31
<211> 6
<212> PRT
<213> Homo sapiens

<220>
<223> Partial PAPSS2 peptide sequence; amino acid
residues 472 through 477

<400> 31
Asp Pro Lys Ser Thr Ile
1 5

<210> 32
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> mutation
<222> (0)...(0)
<223> Nucleotide positions +1414 through +1431 of PAPSS2
coding sequence with mutation c to a at nucleotide
position +1424

<400> 32
gatcccaagt aaaccatt

18

<210> 33
<211> 3
<212> PRT
<213> Homo sapiens

<220>
<223> Partial truncated PAPSS2 peptide sequence; amino
acid residues 472-474 plus stop at position 475

<400> 33
Asp Pro Lys
1